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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Date: 04-10-2018

Lab ID	:	**CP-2018-10-05-02**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-10-2018
Sample ID No	:	2018-10-05-02 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	05-10-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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AE-02

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PVT LTD Sig ..... Date ..... BANGALORE

End of Report

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2018

Lab ID	:	CP-2018-10-11-01
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2018
Sample ID No	:	2018-04-21-02 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2018

Lab ID	:	CP-2018-10-11-01
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2018
Sample ID No	:	2018-04-21-02 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	16/10/2018	150.35 X 150.82 X 150.00	22676	8.220	430.8	19.0	19.4
2	Drain Concrete	M20	09/10/2018	16/10/2018	150.44 X 150.65 X 150.89	22664	8.300	441.9	19.5	
3	Drain Concrete	M20	09/10/2018	16/10/2018	150.33 X 150.44 X 150.65	22616	8.100	445.5	19.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2018

Lab ID	:	CP-2018-10-11-01
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2018
Sample ID No	:	2018-04-21-02 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	416.1	18.4	18.5
2	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

Note:

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 04-10-2018

Lab ID	:	CP-2018-10-05-02
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP,
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-10-2018
Sample ID No	:	2018-10-05-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-10-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	293.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Date: 10-10-2018

Lab ID	:	CP-2018-10-05-02
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-10-2018
Sample ID No	:	2018-10-05-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-10-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	152	152	3.0	97.0	90-100
3	10 mm	3102	3254	65.1	34.9	25-55
4	4.75 mm	1598	4852	97.0	3.0	0-10
5	Pan	148	5000	100	0	–

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